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Ann-Ellice Parker
Ann-Ellice Parker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: MADHUKAR

Docket No.: AOL0116

Serial No.: 10/734,783

Art Unit: 2141

Filed: 12/12/2003

Examiner: Unknown

Title: MULIMEDIA SCHEDULER

SEPTEMBER 23, 2004

TRANSMITTAL FORM

Commissioner of Patents
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P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following documents are being transmitted:

- IDS Transmittal (1 sheet);
- Information Disclosure Statement, (2 pgs) 1449 form (5 pgs)
- Cited References
- Return Postcard

Applicant believes that there is no fee due with this submission. However, the Commissioner is authorized to charge any additional fees that may be due and credit any overpayments to Deposit Account No. 07-1445 (Order No. AOL0116). A copy of this sheet is enclosed for accounting purposes.

Respectfully submitted,

[Signature]

Michael A. Glenn
Reg. No. 30,176

Customer No. 22862



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Madhukar, et al.

Serial No.: 10/734,783

Filed: December 12, 2003

Title: MULTIMEDIA SCHEDULER

Docket No.: AOL0116

Art Unit: 2141

Examiner: Unknown

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
September 23, 2004

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(X) under 37 CFR 1.97(b), or

(within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

under 37 CFR 1.97(c) together with either a:

() Certification under 37 CFR 1.97(e), or

() a \$220.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

() under 37 CFR 1.97(d) together with a:

() Certification under 37 CFR 1.97(e), and

() a \$220.00 fee under 37 CFR 1.17(d)(2)(ii), and

() a \$130.00 petition fee set forth in 37 CFR 1.17(i)(1)

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

(X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. AOL0116). A copy of this sheet is enclosed for accounting purposes.

(X) Applicant(s) submit herewith Form PTO 1449 -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,



Michael Glenn
Attorney For Applicant
Reg. No. 30,176

Customer No. 22862



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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 15

Complete if Known

Application Number	10/734,783
Filing Date	12/12/2003
First Named Inventor	Madhukar et al.
Art Unit	2141
Examiner Name	Unknown
Attorney Docket Number	AOL0116

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A	US-	5,528,513	6/18/96	Vaitzbilt et al.	
B	US-	5,644,715	7/1/97	Baugher	
C	US-	5,761,417	7/28/98	Henley et al.	
D	US-	5,787,482	7/28/98	Chen et al.	
E	US-	5,913,039	6/15/99	Nakamura	
F	US-	5,944,778	8/31/99	Takeuchi et al.	
G	US-	5,956,321	9/21/99	Yao et al.	
H	US-	5,996,015	11/30/99	Day et al.	
I	US-	6,041,354	3/21/00	Biliris et al.	
J	US-	6,088,722	7/11/00	Herz	
K	US-	6,112,023	8/29/00	Dave et al.	
L	US-	6,173,325	1/9/01	Kukreja	
M	US-	6,195,701	2/27/01	Kaiserworth et al.	
N	US-	6,247,061	6/12/01	Douceir	
O	US-	6,438,630	8/20/02	DeMoney	
P	US-	6,446,125	9/03/02	Huang et al	
Q	US-	6,446,126	9/03/02	Huang et al.	
R	US-	6,453,316	9/17/02	Karibe et al.	
S	US-	6,222,530	4/24/01	Sequiera	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature	Date Considered
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/734,783
		Filing Date	12/12/2003
		First Named Inventor	Madhukar et al.
		Art Unit	2141
		Examiner Name	Unknown
Sheet	2	of	15
		Attorney Docket Number	

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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				Art Unit	2141
				Examiner Name	Unknown
Sheet	3	of	5	Attorney Docket Number	AOL0116

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	Z	NARASIMHA, R. et al. "I/O Issues in a Multimedia System"; Computer, Vol. 27, No.3, pg 69-74, March 1994, USA				
	A1	RAMAKRISHNAN, K.K. et al; "Operating system Support for a video-on-demand file service"; Multimedia Systems; Vol. 3, No. 2, Pg.53-65, 1995 West Germany				
	B1	NWOSU, K.C. et al "Data Allocation and Spatio-Temporal Implications for Video-on-Demand Systems"; Proceedings of 1995 14th Annual Phoenix Conference on Computers and Communications: (Cat. No.95CH35751) pg. 629-35; IEEE: 1995 USA				
	C1	EUN, S.; et al. "Nonpreemptive scheduling algorithms for multimedia communication in local area networks"; Proceedings 1995 Int'l Conf on Network Protocols (Cat. no.: 95TB8122) pg. 356-IEEE Comput. Soc. Press; 1995 Los Alamitos, CA USA 1996				
	D1	NAKAJIMA, T.; "A Dynamic QoS control based on Optimistic processor reservation"; Proceedings of the Int'l on Multimedia Computing and Systems (Cat. No.: 96TB100057) pg. 95-103 IEEE Comm. Soc. 1996 Los Alamitos CA				
	E1	Orji, C.U. et al; "Spatio-temporal effects of multimedia objects storage delivery on video-on-demand systems"; Multimedia Systems; vol. 5, no. 1, pg 39-52, Springer-Verlag; January 1997, Germany				
	F1	KENCHAMMANA-HOSEKOTE, D.R., et al.; "I/O scheduling for digital continuous media"; Multimedia Systems, vol. 5, no.4, pg 213-37, Springer-Verlag, July 1997 Germany				
	G1	MATSUI, Y et al.; "VoR: a network system framework for VBRT over reserved bandwidth"; Interactive Distributed Multimedia Systems and Telecommunications Services 4th Int'l Workshop IDMS '97 Proceedings: pg 189-98 Springer-Verlag: 1997				
	H1	LULING, R. et al.; "Communication Scheduling in a Distributed memory parallel interactive continuous media server system"; Proceedings of 1998 ICPP Workshop on Architectural systems and OS Support for Multimedia Applications Flexible				
	I1	SEONGBAE, E., et al; "A real-time scheduling algorithm for multimedia communication in samll dedicated multimedia systems"; KISS(A) (Computer Systems and Theory) vol 25 pg 5 pg 492-502 Korea Inf. Sci. Soc. May 1998 South Korea 1998				

Examiner Signature		Date Considered	
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				Art Unit	2141
				Examiner Name	Unknown
Sheet	4	of	5	Attorney Docket Number	AOL0116

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	J1	GAROFALAKIS, M.N., et al. "Resource scheduling in enhanced pay-per-view continuous media databases"; Proceedings of 23rd Int'l Conf. on Very Large Databases"; pg 516-25; Morgan, Kaufman Publishers, 1997, San Francisco, CA USA		T ²
	K1	MOSTEFAOUI, A.; "Exploiting data structures in a high performance video server for TV archives"; Proceedings of the Int'l Symposium on Digital Media Information Base, pg 516-25; World Scientific, 1998, Singapore		
	L1	GAROFALAKIS, M.N., "On periodic resource scheduling for continuous media databases: VLDB Journal, Vol 7, no.4, pg 206-25; 1998 Springer Verlag, Germany 1999		
	M1	HWEE-HWA, P., et al; "Resource scheduling in high performance multimedia server", IEEE, March-April 1999, USA		
	N1	YOUNG-UHG, L. et al, "Performance analysis and evaluation of allocating subbanded video data block on MZR disk arrays"; Proceedings of the High Performance Computing (HPC'98) pg 335-40; Soc for Comp. Simulation Int'l 1998, San Diego, CA USA		
	O1	FENG, C. et al.; "An architecture of distributed media servers for supporting guaranteed QoS and media indexing", IEEE Int'l Conf on Multimedia Computing and Systems, Part vol. 2 IEEE Comp. Soc. 2 vol. 1999 Los Alamitos, CA 1999		
	P1	TO, T.-P.J. et al "Dynamic optimization of readsize in hypermedia servers"; IEEE Int'l Conf on Multimedia Computing and Systems; Part vol. 2, pg 486-91, Pub. IEEE Comput. Soc, 2 vol. 1999 Los Alamitos, CA USA		
	Q1	PANG, H. et al. "Resource scheduling in a high performance media server": IEEE Transactions on Knowledge and Data Engineering", v11n2, pg 303-320, 1999		
	R1	LEE, W. et al., "QoS-adaptive bandwidth scheduling in continuous media streaming"; Information and Software Technology; v.44n, June 2002, pg 551-563		
	S1	WADDINGTON, D.G., "Resource partitioning in general purpose operating systems; experimental results in Windows NT"; Operating Systems Review, vol. 33, no4, pg 52-74; ACM October 1999 USA		

Examiner Signature		Date Considered	
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	T1	DITZE, M. et al. "A method for real-time scheduling and admission control of MPE 2 streams; PART 2000; 7th Australian Conference on Parallel and Real-Time Systems", Nov. 2000, Sydney, NSW, Australia. Pub: Springer-Verlag, Hong Kong, China 2001		
	U1	GAROFALAKIS, M., et al, "Competitive Online scheduling of continuous media streams", Journal of Computer and Systems Sciences; vol64, no2 pg 219-48, Academic Press, March 2002 USA		
	V1	WONJON, L. et al. ; "QoS-adaptive bandwidth scheduling in continuous media streaming" Dept of Computer Sci and Engr, Korea University, Seoul, South Korea; Information and Software Technology, vol 44, no9, pg 551-53, Seoul, Korea		
	W1	MOURLAS, C.; "Deterministic scheduling of CBR and VBR media flows on parallel media servers", Euro-Par 2002 Parallel Processing 8th Int'l Euro-Par Conference Proceedings; Vol 2400, pg 807-15, August 2002, Paderborn, Germany 2003		
	x1	BUFORD, J.F.; "Storage server requirements for delivery of hypermedia documents", Proceedings of the SPIE - The International Society for Optical Engineering Conference, Int. Soc. Opt. Eng. vol2417, pg 346-55, 1995		

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